

ABSTRACT

An improvement in an ARMCHAIR WITH SEATLIFT, as patented in US Patent No.5,816,655 designed for a disabled person ,or a person with weak legs, the armchair having a seat able to move vertically up and down in the frame of the armchair from a normal seating position to a position flat on the ground, the improvement being: making the armchair automatically mobile and automatically immobile when desired, by attaching wheels to the armchair in such a manner that the armchair automatically becomes mobile by making the wheels automatically become in contact with the ground when the seat moves to it's upper position, and automatically making the seat become in full frictional contact with the ground when the seat is in it's lower position, thereby facillitating the transfer of a person, fallen on the ground, safely onto the seat, without the seat tending to move away from the person during the transfer.

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LIFTCHAIR NUMBERING

- 10 Liftchair
- 11 Frame
- 12 Frame left side
- 13 Frame right side
- 14 Upper rear cross member
- 15 Lower rear cross member
- 16 Front base cross member
- 17 Left vertical rail
- 18 Right vertical rail
- 19 Seat
- 19a Front open space
- 20 Left side plate
- 21 Right side of backplate
- 22 Back plate
- 24 Drive motor
- 25 Flanged pulleys
- 26 Outer side of plate 21
- 27 Forward side of rail 18
- 28 Rearward side of rail 18
- 29 Drive shaft
- 30 Lower rear location
- 32 Motor sprocket
- 33 Motor drive chain
- 34 Shaft drive sprocket
- 35 Lift chain sprocket
- 36 Lift chain
- 37 Chain attachment at upper end of plate 21
- 38 Upper flanged pulley
- 39 Upper end of rail 18
- 40 Lower flanged pulley

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- 41 Secondary flanged pulley
- 42 Chain lower attachment on side plate 21
- 43 Control box
- 45 UP-DOWN switch
- 46 Activate switch
- 47 Flexible sheet
- 48 Upper end of sheet
- 49 Front edge of seat
- 50 Round rod
- 51 Space at rod
- 52 Lower end of sheet
- 100 1st. Embodiment
- 110 Swivel wheel
- 110a Fixed wheel
- 111 Lower front crossbar
- 112 Frame
- 112a Left side of frame
- 112b Right side of frame
- 113 Seat
- 113a Seat in upper position
- 113b Seat in lower position
- 114 Rear lower corner of frame
- 114a Front lower corner of frame
- 115 Ground
- 130 Liftchair Second embodiment
- 131 Large wheelchair wheel
- 131a Large wheelchair point of attachment
- 132 Hand rail
- 133 Small wheelchair swivel wheel
- 136 Handle
- 136a Top rear of frame
- 137 Brake
- 138 Underside of frame
- 138a Lowered position of seat
- 140 Tubularly constructed frame embodiment
- 142 Left side of tubular constructed frame

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- 143 Right side of tubularly constructed frame
- 144 Back of tubularly constructed frame
- 145 Lower front cross member
- 146 Bottom front of tubularly constructed frame
- 147 Lower back cross member
- 147a Middle back cross member
- 147b Upper back cross member
- 150 Side horizontal cross member
- 151 Front vertical frame member
- 152 Rear vertical frame member
- 154 Swivel wheel bracket
- 155 Tubular frame swivel wheel
- 160 Vertical rail
- 161 Roller
- 162 Battery

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